

**Abstract of the Invention**

5 A machine diagnostic system for on-line diagnosis of a machine including a package for a machine diagnostic module that collects data relating to operation of the machine. The package is mounted to an outer mounting surface of the machine and includes a container which contains the machine diagnostic module. The package further includes a heat dissipation device between the container and the outer mounting surface of the machine which dissipates heat generated by the machine into surrounding air thereby minimizing heat transfer to the container.